

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1-46. (cancelled).

47. (currently amended) A method for synthesizing one or more cDNA molecules comprising combining one or more mRNA templates, or one or more poly A RNA templates and a primer with at least one polypeptide having reverse transcriptase activity and an antibody or antibody fragment inhibitor of the polypeptide having reverse transcriptase activity, incubating said template, primer, polypeptide and inhibitor at a temperature between 10°C and 90°C, wherein said inhibitor inhibits said reverse transcriptase activity at said temperature; and elevating the temperature of said template, primer, polypeptide and inhibitor to a temperature between 10°C and 90°C ~~said temperature~~ to inactivate said inhibitor, whereby one or more cDNA molecules are synthesized.

48. (canceled)

49. (previously presented) The method of claim 47, wherein said antibody or antibody fragment is polyclonal or monoclonal.

50. (canceled)

51. (currently amended) The method of claim 47, wherein said polypeptide is a reverse transcriptase selected from the group consisting of Moloney Murine Leukemia Virus reverse transcriptase (M-MLV RT), Rous Sarcoma Virus reverse transcriptase (RSV RT), Avian myeloblastosis Virus reverse transcriptase (AMV RT), Rous associated Virus reverse transcriptase (RAV RT), Myeloblastosis associated virus reverse transcriptase (MAV RT) and Human Immunodeficiency Virus reverse transcriptase (HIV RT), and fragments ~~or mutants~~ thereof having reverse transcriptase activity.

52. (previously presented) The method of claim 51, wherein said reverse transcriptase is reduced in RNase H activity.

53. (previously presented) The method of claim 47, wherein said inhibitor inhibits, prevents, or reduces internal priming.

54. (currently amended) The method of claim 47 53, wherein said temperature is ~~less than 65°C~~ within the range of about 10-65 °C.

55. (currently amended) The method of claim 47 53, wherein said temperature is ~~less than 55°C~~ within the range of about 10-55 °C.

56. (currently amended) The method of claim 47 53, wherein said temperature is ~~less than 45°C~~ within the range of about 10-45 °C.

57. (currently amended) The method of claim ~~44~~ 47, wherein the primer to template ratio is between ~~15:1~~ 12:1 and ~~1:15~~ 1:12.

58. (previously presented) The method of claim 57, wherein said primer to template ratio is between 10:1 and 1:10.

59. (previously presented) The method of claim 57, wherein said primer to template ratio is between 5:1 and 1:5.

60. (currently amended) The method of claim~~44~~ 47, wherein said primer has a length of between 20 and 100 bases.

61. (previously presented) The method of claim 60, wherein said length is between 20 and 75 bases.

62. (previously presented) The method of claim 60, wherein said length is between 20 and 50 bases.

63. (previously presented) The method of claim 60, wherein said length is between 25 and 35 bases.

64-105 (cancelled).

106. (canceled)

107. (previously presented) The method of claim 47, wherein said polypeptide is a retroviral reverse transcriptase.

108. (canceled)

109. (canceled)

110. (canceled)

111. (previously presented) The method of claim 52, wherein said RNase H activity is reduced to less than about 30% of RNase H activity of a corresponding wildtype reverse transcriptase.

112. (previously presented) The method of claim 47, wherein said polypeptide is a reverse transcriptase selected from the group consisting of M-MLV RT, RSV RT and AMV RT.

113. (previously presented) The method of claim 112, wherein said reverse transcriptase is a M-MLV RT having an RNase H activity less than about 30% of the RNase H activity of the corresponding wildtype M-MLV RT.

114. (previously presented) Then method of claim 112, wherein said reverse transcriptase is selected from the group consisting of SUPERSCRIPT™ mutant M-MLV RT, SUPERSCRIPT™ II mutant M-MLV RT, THERMOSCRIPT™ mutant AMV RT and THERMOSCRIPT™ II mutant AMV RT.

115. (previously presented) The method of claim 47, wherein said one or more mRNA templates is a population of mRNA templates suitable for the production of a cDNA library.

116. (previously presented) The method of claim 47, wherein said cDNA molecules are a cDNA library.

117. (currently amended) The method of claim 47 53, wherein said temperature is ~~less than~~ within the range of about 10-35°C.

118. (currently amended) The method of claim 47, ~~further comprising combining a primer with said templates, polypeptide and inhibitor~~ wherein said primer is an oligo(dT) primer.